

EPA Official Record

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To: Dave Dickerson/R1/USEPA/US@EPA

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Subject: Plume tracking

Dave:

I received your voice mail re: Battelle monitoring the City's dredging/CAD Cell filling. At a high level, the following is my first pass at what it would look like:

1. Acoustic Doppler monitoring at the CAD cell (not at the dredging site)
2. Monitoring of this sediment deposition over the tidal cycle (admittedly, we don't have control over this, but slack tide would be ideal)
3. Plume tracking when the sediment dredged from the Sawyer Street area (no contaminant sampling/testing other than those req'd to calibrate the results)
4. Sampling of the dredged material for grain size analysis to help correlate material physical properties to the plume
5. Report showing the plume during these event(s)

The following is an excerpt from Deirdre's email re: what they did in Boston Harbor:

Plume tracking and turbidity and suspended sediment concentrations were observed during placement of dredged material into the Mystic River CAD cell. The turbidity and suspended sediment concentration of plumes produced by disposal operations were monitored using continuous, underway measurements of acoustic backscatter calibrated with water samples collected on site.

Tx,

Bob